M 6.4, 12km SW of Searles Valley, CA
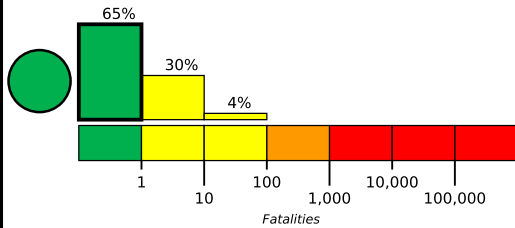
Origin Time: 2019-07-04 17:33:49 UTC (Thu 10:33:49 local)
Location: 35.7052° N 117.5060° W Depth: 10.7 km
FOR TSUNAMI INFORMATION, SEE: tsunami.gov

PAGER
Version 3
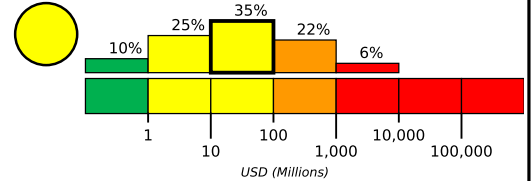
Created: 3 hours, 28 minutes after earthquake

Estimated Fatalities

Yellow alert for economic losses. Some damage is possible and the impact should be relatively localized. Estimated economic losses are less than 1% of GDP of the United States. Past events with this alert level have required a local or regional level response.

Green alert for shaking-related fatalities. There is a low likelihood of casualties.

65% 30% 4%
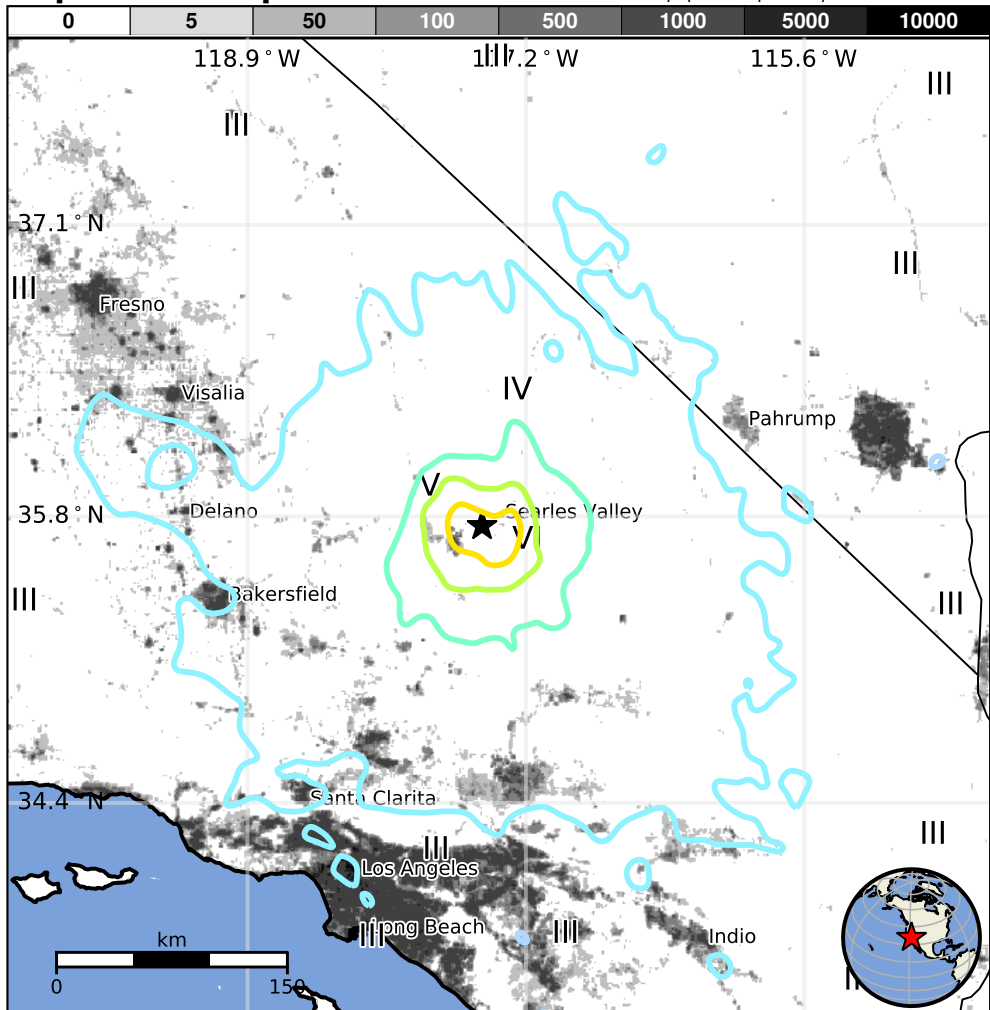1   10   100   1,000   10,000   100,000
Fatalities

Estimated Economic Losses

10% 25% 35% 22% 6%
1   10   100   1,000   10,000   100,000
USD (Millions)

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	18,252k*	5,991k	4k	6k	40k	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

0	5	50	100	500	1000	5000	10000

Structures

Overall, the population in this region resides in structures that are highly resistant to earthquake shaking, though some vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1991-06-28	169	5.6	VI(1,267k)	1
1992-06-28	191	7.3	VIII(23k)	1
1971-02-09	165	6.6	IX(21k)	65

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
VII	Ridgecrest	28k
VII	**Searles Valley**	**2k**
VI	China Lake Acres	2k
VI	Inyokern	1k
V	Lucerne Valley	6k
IV	Weldon	3k
IV	**Los Angeles**	**3,793k**
III	**Long Beach**	**462k**
III	**Bakersfield**	**347k**
III	Las Vegas	584k
III	**Fresno**	**495k**

bold cities appear on map. (k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.
https://earthquake.usgs.gov/earthquakes/eventpage/ci38443183#pager

Event ID: ci38443183